

Title (en)
A CONTROLLER AND A METHOD TO DETERMINE A SWIM STROKE

Title (de)
STEUERUNG UND VERFAHREN ZUR BESTIMMUNG EINES SCHWIMMANFALLS

Title (fr)
DISPOSITIF ET PROCÉDÉ POUR DÉTERMINER UN MOUVEMENT DE NAGE

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Application
EP 21748872 A 20210722

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Abstract (en)
[origin: WO2022042962A1] The controller (110) connected to receive input signals (120) from at least one accelerometer (102). The controller (110) comprises an interface (104) facilitating input and output pins/ports, a filter module (106) to filter the input signal (120) from at least one accelerometer (102). The controller (110), characterized by, a stroke segmentation module (108) adapted to determine at least two parameters comprising a first parameter (208) and a second parameter (210) from said filtered signal (122), generate an envelope signal (206) using the at least two parameters and the filtered signal (122), and determine the swim stroke of the swimmer based on the filtered signal (122) and the envelope signal (206). Further, an activity detection module (112) is used in combination with the stroke segmentation module (108). The present invention obtains the stroke segments based only on the inputs signals from at least one accelerometer (102), providing reduced cost and complexity.

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